

Regional Science Olympiad 2009

Electric Vehicle C

Team Number: C__ Team Name: _____

Student Names: _____ Final Score: _____

Do not write below this line.

Violations

1. Electrical energy used is not stored in commercial batteries	Y	N
2. Used more than 4 individual 1.5V cells or 1 single 4.8V at a given time	Y	N
3. Non-electrical energy helps propel the vehicle	Y	N
4. Not all sighting devices are permanently attached in a fixed position or it doesn't travel with the vehicle	Y	N
5. Vehicle's wheel base (distance measured parallel to the direction of travel between the center of rotation of the front and rear axle) is not 30 ± 2 cm	Y	N
6. Vehicle's width (distance measured perpendicular to the direction of travel between the outermost side of the left and right tire of the widest axle) > 20cm	Y	N
7. Does not have a stationary, pointed object extending forward of all other parts of the vehicle to within 1 cm of the track's surface	Y	N
8. Braking system (except for the vehicle's wheels) contacts the floor or tape	Y	N
9. Does not use a pencil, pen, nor dowel to activate switch	Y	N
10. Students push the vehicle to get it started or follow their vehicle down the track	Y	N
11. Disqualified (notify the team and their coach as soon as possible)	Y	N

Competition

12. Bonus: Use of electronic components (ie. transistors, integrated circuits, diodes, micro-processors, or other solid-state devices are allowed)	Y	N			
13. Target Distance in meters (between 5 and 10 meters with 0.5 meter increment)	_____				
14. Distance Traveled in meters (to the nearest 0.001 meter)	_____				
15. Predicted Time in seconds (must be less than 45 seconds)	_____				
Measured Time in seconds (to the closest 0.01 second)					
16. Timer 1	_____	17. Timer 2	_____	18. Timer 3	_____
19. Final Distance in meters (to the nearest 0.001 meter)	_____				
20. Center tape remains completely within the vehicle's track until finish line	Y		N		